

## AMENDMENT

### In the Specification:

Prior to the first sentence of the Specification, please add the following:

### Related Applications

This application is a continuation of U.S. Serial No. 09/129,035, filed August 4, 1998, now abandoned, which is a continuation of U.S. Serial No. 08/897,814, filed July 21, 1997, now U.S. Patent No. 5,812,318, which is a continuation of U.S. Serial No. 08/403,376, filed March 13, 1995, now abandoned.

On page 22, replace the first full paragraph with the following:

An image can also be programmed into an active material to allow routing of an image encoded in a subsequent data beam. The simplest image is defined by two plane waves; generally, an image comprises multiple plane waves. The principles of the present invention as applied to plane-wave beams are directly applicable to combinations of plane wave beams. (Also, in the prior art, it is known that images can be stored and recalled from materials; see, e.g., U.S. Patent No. 5,276,637.) Basically, such programming would involve the interaction of the material with an image-encoding set of direction beams (rather than a simple plane-wave direction beam.)

On page 57, delete the title "APPARATUS AND METHODS FOR ROUTING OF OPTICAL BEAMS VIA TIME-DOMAIN SPATIAL-SPECTRAL FILTERING".